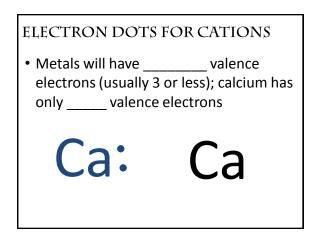
CHEMICAL BONDING

IONIC BONDING	
•This bond is formed through	the
(lose & gain).	
Electrons are transferred	(+)v(-)
to achieve	Ionic bond
arrangement (filled with	_electrons).
 Bond forms between ions of 	
and	•
1	

CATIONS
•Metals
to attain an achieve octet arrangement .
•Motals make positive ions called
•Metals make positive ions called
Magnesium e** Ckygen



ANIONS
•Nonmetalsto attain an achieve octet arrangement .
•Nonmetals make negative ions called
Magnesium

ELECTRON DOTS FOR ANIONSNonmetals will havevalence electrons (usually 5 or more)
• They will to fill outer shell.
÷ S

IONIC COMPOUNDS

- Cations and anions are held together by (+ and -)
- The bond is formed through the
- Ionic compounds are called



IONIC BONDING

Lets do an example by combining calcium and sulfur:

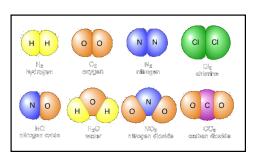


All the electrons must be accounted for, and each atom will have a noble gas configuration (full with ______ electronswhich is ______).

COVALENT BONDING

- •This bond is formed through the
- •Electrons are ______ to achieve _____ arrangement (filled with _____ electrons).
- •Bonds form between two or more

COVALENT BONDING



TYPES OF COVALENT BONDING

- _____ covalent bonds-form when electrons are shared _____.
- •_____ covalent bonds-form

when electrons are shared ____





CHECK YOUR UNDERSTANDING

Circle the correct answer.

- 1. An atom that gives electrons is a/an (anion, cation).
- 2. Metals tend to (give, take, share) electrons.
- 3. The transfer of electrons forms a/an (ionic, covalent) bond.
- 4. Ionic compounds are called (molecules, salts).
- 5. When electrons are equally shared it forms a (polar, nonpolar) covalent bond.

TOMORROW WE WILL PRACTICE IONIC AND COVALENT BONDING.



